

# INTERNATIONAL SEARCH REPORT

Rec **10/522115**  
**PCT/PTO** 24 JAN 2005  
 International Application No  
**PCT/EP 03/50323**

**A. CLASSIFICATION OF SUBJECT MATTER**  
**IPC 7 H01J1/142 H01J1/26**

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

**IPC 7 H01J**

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

**EPO-Internal, PAJ, WPI Data, INSPEC, COMPENDEX**

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 3 911 312 A (COENEN RENIER GERTRUDA HUBERTU ET AL) 7 October 1975 (1975-10-07) column 2, line 3-18	1, 14, 15
A	US 3 535 757 A (NESTLEROTH PAUL L ET AL) 27 October 1970 (1970-10-27) column 3, line 13-46	1, 14, 15
A	EP 1 152 447 A (THOMSON LICENSING SA) 7 November 2001 (2001-11-07) abstract; table 1	1, 14, 15
A	US 4 215 180 A (MISUMI AKIRA ET AL) 29 July 1980 (1980-07-29) column 1, line 53 -column 6, line 16	1, 14, 15

☐

Further documents are listed in the continuation of box C.

☒

Patent family members are listed in annex.

### \* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*Z\* document member of the same patent family

Date of the actual completion of the international search

**1 December 2003**

Date of mailing of the international search report

**12/12/2003**

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
 NL - 2280 HV Rijswijk  
 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
 Fax (+31-70) 340-3016

Authorized officer

**Meyer, J**

# INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 03/50323

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 3911312	A	07-10-1975	NL 7307855 A AU 6971174 A CA 1008914 A1 DE 2425337 A1 ES 426956 A1 FR 2232833 A1 GB 1470318 A IT 1014280 B JP 1079266 C JP 50023554 A JP 56021212 B	10-12-1974 04-12-1975 19-04-1977 02-01-1975 01-08-1976 03-01-1975 14-04-1977 20-04-1977 25-12-1981 13-03-1975 18-05-1981
US 3535757	A	27-10-1970	NONE	
EP 1152447	A	07-11-2001	FR 2808377 A1 CN 1323050 A EP 1152447 A1 JP 2001357770 A	02-11-2001 21-11-2001 07-11-2001 26-12-2001
US 4215180	A	29-07-1980	JP 1185881 C JP 54140453 A JP 58016737 B DE 2904653 A1 FI 790444 A GB 2023335 A ,B NL 7900912 A	20-01-1984 31-10-1979 01-04-1983 25-10-1979 25-10-1979 28-12-1979 26-10-1979